



“Execution of special geotechnical works”  
“Exécution des travaux géotechniques spéciaux”  
“Ausführung von Arbeiten im Spezialtiefbau”

**CEN/TC 288**

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## Report of the liaison with CEN/TC 189 “Geosynthetics”

### C OMMENTARIES

Please find attached the 2016 report of the work of CEN/TC 189 “Geosynthetics” for the CEN/TC 288.

### S OURCE

Daniele Cazzuffi (Liaison officer)

### F OLLOW UP

**For information.**



**CEN/TC 189 doc N1071**

**CEN/TC 189 – Liaison report to CEN/TC 288 Plenary Meeting  
(Zurich, June 30 to July 1, 2016)**

Date: 2016-05-31

Liaison officer: Daniele Cazzuffi

Title: CEN/TC 189 Geosynthetics

Scope: Standardization related to geosynthetics (terminology, sampling before testing, identification and marking rules, test methods, requirements related to the intended use).

*Note: The term "geosynthetics" relates to water-permeable products such as geotextiles, geogrids, geomats, etc. and to water-impermeable products such as polymeric and bituminous membranes and clay mats.*

Structure of CEN/TC 189

- Created in 1989, developed approximately 70 published standards (17 in support of CPR – European legislation on construction products)
- Chairman: Daniele Cazzuffi (IT)
- Secretary: Karin Eufinger (Centexbel – NBN – BE)
- CEN Programme manager: Gonçalo Ascensao
- CEN consultant: Joël Cuche
- Working Groups
  - WG 1 Geotextiles – Requirements
    - Convenor: Philippe Delmas (FR)
    - Project groups:
      - Erosion Control Mats (H. Zanzinger – DE)
      - Asphalt Reinforcement (A. de Bondt – NL)
  - WG 2 Terminology and identification parameters
    - Convenor: Erol Güler (TR)
  - WG 3 Mechanical properties
    - Convenor: Andrew Leech (UK)
  - WG 4 Hydraulic properties
    - Convenor: Nathalie Touze-Foltz (FR)
  - WG 5 Durability
    - Convenor: Jan Retzlaff (DE)
    - Project groups
      - GBR-B (bituminous products)
  - WG 6 Geosynthetic Barriers – Requirements
    - Convenor: Kent von Maubeuge (DE)

## Meetings

- Frequency: 1 per year (April – June), preceded by WG meetings
- Last meetings:
  - Milan 25 May 2012
  - London 16 May 2013
  - Geneva 10 April 2014
  - Istanbul 23 April 2015
- Next meeting:
  - Tallinn 16 June 2015

## Work programme

- All candidate harmonised standards (from WG 1 and WG 6) are developed within the CEN system. Other standards (terminology, test methods) are mainly developed within the Vienna Agreement, mostly under ISO lead.
- Current status of WG 1 standards (EN 13249, 13250, 13251, 13252, 13253, 13254, 13255, 13256, 13257, 13265)
  - These standards are application-related: roads, railways, foundations, drainage, erosion control, canals, dams and reservoirs, tunnels, solid waste storage, liquid waste containment, asphalt reinforcement
  - These standards were revised in 2013 and amended (durability aspects) in 2014, but not cited in the OJEU due to objections from the European Commission.
  - The standards were revised, implementing the requested adaptations of the EC and passed the UAP vote, so they will be published by CEN soon and will be sent to the EC for citation in the OJEU.
- Current status of WG 6 standards
  - These standards are application-related: reservoirs and dams, canals, tunnels, solid waste disposal, liquid waste containment, infrastructure. All standards pertain to the three main families of geosynthetic barriers (polymeric, bituminous, clay).
  - These standards were approved and published in 2013. Due to objections from the NL, the citation of the 2013 standards (and the amendments) has been delayed (EN 13361, 13362, 13491, 13492, 13493).
  - A new revision has started, resulting in two extra projects being added, so that the set now includes: EN 13361, 13362, 13491, 13492, 13493, 15382, 16993, 16994
  - These standards are currently under preparation for CEN Enquiry, scheduled to start June 30<sup>th</sup>, 2016.

2016-05-31

Karin Eufinger  
Secretary CEN/TC 189

Daniele Cazzuffi  
Chair CEN/TC 189

Attachment: List of active and waiting work items (waiting work item = preliminary work item)

List of active and waiting work items ('waiting' = preliminary work item)

<b>WI Number</b>	<b>Reference</b>	<b>Title</b>	<b>WI Status</b>
00189172	prEN 16994	Clay Geosynthetic Barriers - Characteristics required for use as a fluid barrier in the construction of underground structures (other than tunnels and associated structures)	Active
00189173	prEN ISO 13438 rev	Geotextiles and geotextile-related products - Screening test method for determining the resistance to oxidation	Active
00189194	prEN 13362	Geosynthetic Barriers - Characteristics required for use in the construction of canals	Active
00189195	prEN 13491	Geosynthetic barriers - Characteristics required for use as a fluid barrier in the construction of tunnels and associated underground structures	Active
00189196	prEN 13361	Geosynthetic barriers - Characteristics required for use in the construction of reservoirs and dams	Active
00189197	prEN 13493	Geosynthetic barriers - Characteristics required for use in the construction of solid waste storage and disposal sites	Active
00189198	prEN 15382	Geosynthetic barriers - Characteristics required for use in transportation infrastructure	Active
00189202	prEN 16993	Geosynthetic barriers - Characteristics required for use in the construction of storage lagoons, secondary containment (above and below ground) and other containment applications for chemicals, polluted water and produced liquids	Active
00189203	prEN 13492	Geosynthetic barriers - Characteristics required for use in the construction of liquid waste disposal sites, transfer stations or secondary containment	Active
00189208	FprEN ISO 9863-1	Geosynthetics - Determination of thickness at specified pressures - Part 1: Single layers (ISO/FDIS 9863-1:2016)	Active
00189223	prEN 14576 rev	Geosynthetics - Test method for determining the resistance of polymeric geosynthetic barriers to environmental stress cracking	Active
00189224		Geosynthetics - Characteristics required for use in surface erosion control on slopes and banks	Active
00189225		Geosynthetics - Test method for the determination of the strain hardening modulus of HDPE geosynthetic barriers	Active
00189236	prEN ISO 12956 rev	Geotextiles and geotextile-related products - Determination of the characteristic opening size	Active
00189237	prEN ISO 10320 rev	Geotextiles and geotextile-related products - Identification on site	Active
00189240	EN ISO 10318-1:2015/prA1	Geosynthetics -- Part 1: Terms and definitions	Active
00189241	EN ISO 10318-2:2015/prA1	Geosynthetics -- Part 2: Symbols and pictograms	Active
00189242	FprEN 13252	Geotextiles and geotextile-related products - Characteristics required for use in drainage systems	Active
00189243	FprEN 13254	Geotextiles and geotextile-related products - Characteristics required for the use in the construction of reservoirs and dams	Active
00189244	FprEN 13250	Geotextiles and geotextile-related products - Characteristics required for use in the construction of railways	Active
00189245	FprEN 13251	Geotextiles and geotextile-related products - Characteristics required for use in earthworks, foundations and retaining structures	Active
00189246	FprEN 13256	Geotextiles and geotextile-related products - Characteristics required for use in the construction of tunnels and underground structures	Active

00189247	FprEN 13257	Geotextiles and geotextile-related documents - Characteristics required for use in solid waste disposals	Active
00189248	FprEN 13265	Geotextiles and geotextile-related products - Characteristics required for use in liquid waste containment projects	Active
00189249	FprEN 13249	Geotextiles and geotextile-related products - Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)	Active
00189250	FprEN 13255	Geotextiles and geotextile-related products - Characteristics required for use in the construction of canals	Active
00189251	FprEN 13253	Geotextiles and geotextile-related products - Characteristics required for use in erosion control works (coastal protection, bank revetments)	Active
00189252	prEN ISO 13426-1 rev	Geotextiles and geotextile-related products - Strength of internal structural junctions - Part 1: Geocells	Active
00189253	prEN ISO 12957-1 rev	Geosynthetics - Determination of friction characteristics - Part 1: Direct shear test	Active
00189254	prEN ISO 12958 rev	Geotextiles and geotextile-related products - Determination of water flow capacity in their plane	Active
00189255	prEN ISO 10722 rev	Geosynthetics - Index test procedure for the evaluation of mechanical damage under repeated loading - Damage caused by granular material	Active
00189256	prEN ISO 11058 rev	Geotextiles and geotextile-related products - Determination of water permeability characteristics normal to the plane, without load	Active
00189161	prEN 12224 rev	Geotextiles and geotextile-related products - Determination of the resistance to weathering	Waiting
00189162	prEN 12447 rev	Geotextiles and geotextile-related products - Screening test method for determining the resistance to hydrolysis in water	Waiting
00189164	prEN ISO 13437 rev	Geotextiles and geotextile-related products - Method for installing and extracting samples in soil, and testing specimens in laboratory	Waiting
00189178	prEN ISO 12957-2 rev	Geosynthetics - Determination of friction characteristics - Part 2: Inclined plane test	Waiting
00189193	prEN 14150 rev	Geosynthetic barriers - Determination of permeability to liquids	Waiting
00189199		Geotextiles and geotextile-related products - Determination of carboxyl end-group content	Waiting
00189200		Geotextiles and geotextile-related products - Molecular weight distribution	Waiting
00189201		Polymeric geosynthetic barriers - Determination of tensile properties	Waiting
00189205	prEN 15381 rev	Geotextiles and geotextile-related products - Characteristics required for use in pavements and asphalt overlays	Waiting
00189206	prEN 12225 rev	Geotextiles and geotextile-related products - Methods for determining the microbiological resistance by a soil burial test	Waiting
00189220	prEN 14414 rev	Geosynthetics - Screening test method for determining chemical resistance for landfill applications	Waiting
00189221	prEN 14415 rev	Geosynthetic barriers - Test method for determining the resistance to leaching	Waiting
00189222	prEN 14575 rev	Geosynthetic barriers - Screening test method for determining the resistance to oxidation	Waiting
00189238		Geosynthetics - Standard Test for the Simulation of Rainfall-Induced Erosion on Geosynthetic Erosion Control Products	Waiting
00189239		Geosynthetics - Standard Test for the Simulation of storm water induced erosion on Geosynthetic Erosion Control Products	Waiting